



Nitobond BBX

Acrylic emulsion cement modifier and water based concrete bonding agent

Uses

Recommended primer for Fosroc cementitious repair system. For improving and bonding floor toppings, renders and mortars; repair of worn, damaged or spalled concrete; polymer modified floor screeds.

Advantages

Simply brush onto concrete as a primer. Single component, gauged as required.

- **High adhesion** -Provides excellent bond to concrete, masonry, stone work plaster and block board.
- **Increased strength** - Improves tensile and flexural properties of mortar. Allows thin section applications.
- **Versatile** - Compatible with all common hydraulic cements
- **Economical** - Economical to use

Description

Nitobond BBX is a modified acrylic emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications.

Nitobond BBX is the recommended primer for the Fosroc cementitious repair system.

Technical support

Fosroc offers a technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Specific gravity : **1.03 to 1.06 g/cc**

Mechanical properties

Typical improvements in mechanical properties of a 3 : 1 cement mortar /sand using Nitobond BBX.

Mechanical properties	Curing conditions	Control	Nitobond BBX
Adhesion to concrete Slant shear strength N/mm ² (BS 6319)	Dry	5.0	20.0

Specification clauses

As a bonding agent

The bonding agent shall be Nitobond BBX an acrylic based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide adequate bond strength when directly applied on concrete and also mixed with neat cement.

As a mortar modifier

The mortar modifier shall be Nitobond BBX, an acrylic emulsified cement modifier which provides good bond with concrete / masonry and improves the flexural strength, tensile strength properties of the mortar when added in the specified quantities. It shall be compatible with all common hydraulic cements.

Application instructions

Surface Preparation

The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Laitence should be removed by mechanical means. Oil or greasy deposits should be removed by suitable means. All surfaces so treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit/ sand blasting to provide a mechanical key.

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Concrete repairs : Remove all surface dust and debris. Any reinforcing steel in the repair area should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits and then primed with Nitozinc Primer.

Priming

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub Nitobond BBX into the substrate. Avoid puddling of the emulsion. The repair mortar/topping should be applied whilst the primer is still tacky. The bond coat becomes tacky in about 2 minutes and best results are achieved if the mortar is applied within the next 5-10 min

In case of Nitobond BBX slurry coat (1 volume of Nitobond BBX + 1.5 volume of water + 1.5 volume of cement), best results are achieved, if mortar is applied within 5 minutes of application of bond coat.

Typical Mix designs to modify mortars :

OPC	50 kg
Zone 2 sand	150 kg
Nitobond AR	8 - 10 litres
Water	Add sufficient water to give required consistency

Note : Trials are recommended to optimise mix designs. 1:4 cement sand mortars can also be used with same dosage of Nitobond BBX.

General recommendations

For repairs

Prepare surfaces thoroughly as previously recommended. Cut back edges to avoid feather edging. Prime all surfaces including edges, using Nitobond BBX.

All applications shall be wet on wet. For best results Nitobond

BBX should be allowed to become tacky. If the bonding agent is allowed to dry for more than 15 minutes at 30° C initial 'grab' to the repair mortar will be reduced. Therefore, the use of temporary shuttering is recommended. Water content of the mortar should be kept to the minimum necessary.

For consistent results, the use of clean, dry sand is recommended. Where the use of wet sand is unavoidable, the quantity of water to be added must be reduced.

Cure mortars using Nitobond BBX to prevent rapid drying out.

Protect uncured mortar from frost and rain. Do not retemper mortar after initial set.

Minimum application temperature for Nitobond BBX is 10°C, but the mortar should not be applied if the temperature is expected to fall.

For permanently immersed conditions consult Local Fosroc office.

Limitations

As a bonding agent

Nitobond BBX may exhibit less overlay time at higher temperature. In such cases as overlay mortar shall not be applied when Nitobond AR is totally dry.

Nitobond BBX when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

Equipment cleaning

Immediately after use, wash all tools with clean water.

Estimating

Packaging

Nitobond BBX is supplied in 1, 5 and 20 litre plastic containers.

Coverage

Approximately 6 - 8m²/ litre depending on substrate

Nitobond BBX

Storage

Shelf life

6 months at 30°C. Nitobond BBX should be protected from frost.

Precautions

Health & Safety instructions

Nitobond BBX is non toxic. However it should never be ingested and if it comes in contact with eyes, wash immediately with plenty of water and seek medical treatment.

Nitobond BBX is slightly alkaline. Skin contact should be avoided. Gloves and protective clothing should be worn during application.

Fire

Nitobond BBX is non flammable.

Flash point : 48°C

Additional information

Nitobond BBX forms a part of the Fosroc concrete repair system.

Fosroc manufactures a wide range of products specifically designed for repair and refurbishment of damaged reinforced concrete. This includes hand-placed and spray grade repair mortars, fluid micro concretes, chemical resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products is available. This includes joint sealants, water proofing membranes, grouting, anchoring and specialised flooring materials.

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